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tttttcatgt gcaccaaaat gaaaatgttt aaattaactg tgttgtacaa atggtaccca    120
acacaaactt tttttaaatt agtaatactt ttgtttaaag ttttaagttt gcattttgac    180
tttttttgta aggatgtatg ttgtgtgttt aacctttatt aactaacgtt aaaagctgtg    240
atgtgtgcgt agaatattac gtatgcatgt tcatgtctaa agaatggctg ttgatgataa    300
aataaaaatc agctttcatt tttctaaa                                       328
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<210> 980
<211> 1049
<212> DNA
<213> Homo sapiens

<400> 980

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gtcttgatgc ccaggttgta aatggttaca tgattcatga tcaggaaagc aaatcagagg     60
ttcagattcc ttaccctctg tcagaaaaca atcaagtgca gagtggaaga gctttccatc    120
acggaagatt catcatgagt ctccggaaag cagctatggc agagcccaat gcaaagttta    180
ttggaggtgt tgtgttacag ttattagagg aagatgatgt tgtgatggga gttcagtaca    240
aggataaaga gactggagat atcaaggaac tccatgctcc actgactgtt gttgcagatg    300
ggcttttctc caagttcagg aaaagcctgg tctccaataa agtttctgta tcatctcatt    360
ttgttggctt tcttatgaag aatgcaccac agtttaaagc aaatcatgct gaacttattt    420
tagctaaccc gagtccagtt ctcatctacc agatttcatc cagtgaaact cgagtacttg    480
ttgacattag aggagaaatg ccaaggaatt taagagaata catggttgaa aaaatttacc    540
cacaaatacc tgatcacctg aaagaaccat tcttagaagc cactgacaat tctcatctga    600
ggtccatgcc agcaagcttc cttcctcctt catcagtgaa gaaacgaggt gttcttcttt    660
tgggagacgc atataatatg aggcatccac ttactggtgg aggaatgact gttgctttta    720
aagatataaa actatggaga aaactgctaa agggtatccc tgacctttat gatgatgcag    780
ctattttcga ggccaaaaaa tcattttact gggcaagaaa aacatctcat tcctttgtcg    840
tgaatatcct tgctcaggct ctttatgaat tattttctgc cacagatgat tccctgcatc    900
aactaagaaa agcctgtttt ctttatttca aacttggtgg cgaatgtgtt gcgggtcctg    960
ttgggctgct ttctgtattg tctcctaacc ctctagtttt aattggacac ttctttgctg   1020
ttgcaatcta tgccgtgtat ttttgcttt                                     1049
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<210> 981
<211> 2476
<212> DNA
<213> Homo sapiens

<400> 981
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ctgcgggctg cgcccccgct gctggccagc tctgcacggc tgcgggctct gcggcgcccg    180
gtgctctgca acgctgcggc gggcggcatg ggataacgcg gccatggtgc gccgagatcg    240
cctccgcagg atgagggagt ggtgggtcca ggtggggctg ctggccgtgc ccctgcttgc    300
tgcgtacctg cacatcccac cccctcagct ctcccctgcc cttcactcat ggaagtcttc    360
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tggaagtcca gagatagttg tgctttttaca cggttttcca acatccagct acgactggta    480
caagatttgg aagggtctga ccttgaggtt tcatcgggtg attgcccttg atttcttagg    540
ctttggcttc agtgacaaac cgagaccaca tcactattcc atatttgagc aggccagcat    600
cgtggaagcg cttttgcggc atctggggct ccagaaccgc agaatcaacc ttctttctca    660
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tcggcatacc ataaagagtc tctgtctgtc aaatggaggt atctttcctg agactcaccg    780
tccactcctt ctccaaaagc tactcaaaga tggaggtgtg ctgtcaccca tcctcacacg    840
actgatgaac ttctttgtat tctctcgagg tctcacccca gtctttgggc cgtatactcg    900
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gccctctgag agtgagctgt gggacatgtg ggcagggatc cgcaacaatg acgggaactt      960
agtcattgac agtctcttac agtacatcaa tcagaggaag aagttcagaa ggcgctgggt     1020
gggagctctt gcctctgtaa ctatccccat tcattttatc tatgggccat tggatcctgt     1080
aaatccctat ccagagtttt tggagctgta caggaaaacg ctgccgcggt ccacagtgtc     1140
gattctggat gaccacatta gccactatcc acagctagag gatcccatgg gcttcttgaa     1200
tgcatatatg ggcttcatca actccttctg agctggaaag agtagcttcc ctgtattacc     1260
tcccctactc ccttatgtgt tgtgtattcc acttaggaag aaatgcccaa aagaggtcct     1320
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ggaagaagcc agcaggagct ctgactaagg ttgacataat agtccacctc ccattacttt     1440
gatatctgat caaatgtata gacttggctt tgttttttgt gctattagga aattctgatg     1500
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acgtttggtt tctgaataaa ttgaactaaa tccaaactat ttcctaaaat cacaggacat     1980
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acagcaaata acagtctgag actcctcata cctcagtggt tagaagcatg tctctcttga     2100
gctacagtag aggggaaggg attgttgtgt agtcaagtca ccatgctgaa tgtacactga     2160
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gaaagaccta tgagcaaatg gtgctgaata cttttttttt aaagccacat ttcattgtct     2340
tagtcaaagc aggattatta agtgattatt taaaattcgt tttttaaat tagcaacttc     2400
aagtataaca actttgaaac tggaataagt gtttattttc tattaataaa aatgaattgt     2460
gacaaaaaaa aaaccg                                                      2476


<210>    982
<211>    380
<212>    DNA
<213>    Homo sapiens

<400>    982
gtcggttggg taggcagtca tggatcaggt aatgcagttt gttgagccaa gtcggcagtt       60
tgtaaaggac tccattcggc tggttaaaag atgcactaaa cctgatagaa aagaattcca      120
gaagattgcc atggcaacag caataggatt tgctataatg ggattcattg gcttctttgt      180
gaaattgatc catattccta ttaataacat cattgttggt ggctgaatac attttggaag      240
agagtttttc atcttagaga ttggtgaaca agtgtgaggg tgtgagaact cacagaatac      300
aaatttgcct gtatgttttg tgggtttttt tttttccttt caagatgttt tctatttcca      360
aattaaagta atttcaaagt                                                  380


<210>    983
<211>    287
<212>    DNA
<213>    Homo sapiens

<220>
<221>    misc_feature
<223>    n=a,t,g or c
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752

<400> 983

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ctgagtcgag gttatgtact tcctgttgtc agttacatcc gaaagtgtct ggagaagctg      60
gacactgaca tttcactcat tcgctatttt gtcactgagg tgctggacgt cattgctcct     120
ccttatncct ctgacttcgt gcaacttttc ctccccatcc tggagaatga cagnatcgna     180
ggtnccatca naacggaagg tgagcatgac cctgtgacgg agtttatagc tcactgcaan     240
tctaactaca tcatggtgaa ctaatttaga gcatcctcca gagctga                   287
```

<210> 984
<211> 2047
<212> DNA
<213> Homo sapiens

<400> 984

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ctcctggagg cggccctggc cgccgaggtg aagaaacctg cagccgcagc agctcctggc     180
actgcggaga agttgagccc caaggcggcc acgcttgccg agcgcagcgc cggcctggcc     240
ttcagcttgt accaggccat ggccaaggac caggcagtgg agaacatcct ggtgtcaccc     300
gtggtggtgg cctcgtcgct ggggctcgtg tcgctgggcg gcaaggcgac cacggcgtcg     360
caggccaagg cagtgctgag cgccgagcag ctgcgcgacg aggaggtgca cgccggcctg     420
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agccgactgt acggacccag ctcagtgagc ttcgctgatg acttcgtgcg cagcagcaag     540
cagcactaca actgcgagca ctccaagatc aacttccgcg acaagcgcag ccgctgcag      600
tccatcaacg agtgggccgc gcagaccacc gacggcaagc tgcccgaggt caccaaggac     660
gtggagcgca cggacggcgc cctgttagtc aacgccatgt tcttcaagcc acactgggat     720
gagaaattcc accacaagat ggtggacaac cgtggcttca tggtgactcg gtcctatacc     780
gtgggtgtca tgatgatgca ccggacaggc ctctacaact actacgacga cgagaaggaa     840
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ccaaattgag ctagggggt cagccagccc tcttctgaca ctaaaacacc tcagctgcct    1740
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ggcacccccca gaatgacctg gccgcagtga ggcggattga gaaggagctc ccaggagggg    1860
cttctgggca gactctggtc aagaagcatc gtgtctggcg ttgtggggat gaactttttg    1920
ttttgtttct tcctttttta gttcttcaaa gataggggagg gaaggggggaa catgagcctt    1980
tgttgctatc aatccaagaa cttatttgta catttttttt ttcaataaaa cttttccaat    2040
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<210> 985
<211> 3614
<212> DNA
<213> Homo sapiens
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753

<400> 985

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ccgcggcaga gtgaggcagg caacccgagg tgcggagcga cctgcggagg ctgagccccg   120
ctttctccca gggtttctta tcagccagcc gccgctgtcc ccgggggagt aggaggctcc   180
tgacaggccg cggctgtctg tgtgtccttc tgagtgtcag aggaacggcc agaccccgcg   240
ggccggagca gaacgcggcc agggcagaaa gcggcggcag gagaagcagg caggggggccg   300
gaggacgcag accgagaccc gaggcggagg cggaccgcga gccggccatg tcggtggtgg   360
ggttggacgt gggctcgcag agctgctaca tcgcggtagc ccgggccggg ggcatcgaga   420
ccatcgccaa tgagttcagc gaccggtgca ccccgtcagt catatcattt ggatcaaaaa   480
atagaacaat cggagttgca gccaaaaatc agcaaatcac tcatgcaaac aatacggtgt   540
ctaacttcaa aagatttcat ggccgagcat tcaatgaccc cttcattcaa aaggagaagg   600
aaaacttgag ttacgatttg gttccattga aaaatggtgg agttggaata aaggtaatgt   660
acatgggtga agaacatcta tttagtgtgg agcagataac agccatgttg ttgactaagc   720
tgaaggaaac tgctgaaaac agcctcaaga aaccagtaac agattgtgtt atttcagtcc   780
cctccttctt tacagatgct gagaggcgat ctgtgttaga tgctgcacag attgttggcc   840
taaactgttt aagacttatg aatgacatga cagctgttgc tttgaattac ggaatttata   900
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attcagcttt tcaagtgtct gcttgtgctt ttaacaaggg aaaattgaag gtactgggaa  1020
cagcttttga tcctttctta ggaggaaaaa acttcgatga aaagttagtg aacatttttt  1080
gtgcagaatt taaaactaag tacaagttgg atgcaaaatc caaaatacga gcactcctac  1140
gtctgtatca ggaatgtgaa aaactgaaaa agctaatgag ctctaacagc acagaccttc  1200
cactgaatat cgaatgcttt atgaatgata aagatgtttc cggaaagatg aacaggtcac  1260
aatttgaaga actctgtgct gaacttctgc aaaagataga agtacccctt tattcactgt  1320
tggaacaaac tcatctcaaa gtagaagatg tgagtgcagt tgagattgtt ggaggcgcta  1380
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cggcatttaa agttagagaa ttttccgtca cagatgcagt tcctttttcca atatctctga  1560
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acacccatgg cattttccacc atctctacgg catctatggt ggagaaagtc ccaactgagg  1860
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cagacactga taaaaatgtc cagcaagaca acagtgaagc tggaacacag ccccaggtac  1980
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aaaagcccaa aataaaggtg gtgaatgttg agctgcctat tgaagccaac ttggtctggc  2160
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ataaattgga aaaagaaagg aatgatgcta aaaatgcagt tgaggaatat gtgtatgagt  2280
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aacaagcata tgttgacaag ttggaagaat taatgaaaat tggcactcca gttaaagttc  2460
ggtttcagga agctgaagaa cggccaaaaa tgtttgaaga actaggacag aggctgcagc  2520
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agtctgaaat gaaaaaagtg gagaagtctg ttaatgaagt gatggaatgg atgaataatg  2640
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aagaagattt agaagacaaa aacaattttg gtgctgaacc tccacatcag aatggtgaat  2880
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aactatttat attttctttt ttaaggatat ttagaaattt tgtgtattat atggaaaaag  3060
aaaaaaagct taagtctgta gtctttatga tcctaaaagg gaaaattgcc ttggtaactt  3120
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754

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tcagattcct gtggaattgt gaattcatac taagctttct gtgcagtctc accatttgca    3180
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gagggctgtg attaaaatct ttaagcattt gttcctgcca aggtagtttt cttgcatttt    3300
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atggtgtcat ttct                                                      3614


<210>   986
<211>   409
<212>   DNA
<213>   Homo sapiens

<220>
<221>   misc_feature
<223>   n=a,t,g or c


<400>   986
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tgtttcttct ttgagagtca tgactacctt ctggtgtgga gaaattgcca ttggaaaatt     120
tgacaatttt gattctcact ggtatgttta aaaactgaat aaaaggaata gaattttttt     180
ttgataaagg atcacaaaac aattctaaaa cctaactgtt tttaccattg aaatttaaat     240
tgtgataata ggttttaaat gtctaggaat gcaactgata gggcttttct tggaactgtt     300
agtttttttg aagtagtttt ttcatgttta atttgtattt gttaaaaaaa caaaaaggca     360
aaaattcccc aaaaccccgg ttaaccaccn ggggcaaaac ngttgtggc                 409


<210>   987
<211>   390
<212>   DNA
<213>   Homo sapiens

<220>
<221>   misc_feature
<223>   n=a,t,g or c


<400>   987
atcttantta aaaccttttt nacaatttat tncctgttgn naanctttaa aaatgaggtn      60
ctagctaagt gcagggtttc agtggtgaaa ttttgaccat gtgaacacat aaataaatat     120
ttacagtctt tggcaaaaca catgacgttt catcaaccta tacgataaat ttgtttagaa     180
aancataaat aatttacaaa aaatatggta cattctaaat attcacatca tcgtcactcc     240
cacaccattg tacggttgac cccacaacac agaaacagga aaacctgcac gctgttgaca     300
gtcgctacat ttnatgaggt atcccaacgc ttcgttggtc tcgggganta caggctccac     360
aggcaaaaag gtaaaaagtg caggcaaanc                                      390


<210>   988
<211>   535
<212>   DNA
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755

<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 988
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tattcagtta aacaataatg tgtgaacttt taagatggat aatagggnca tggnactgag   120
tgctgnctat cttgtaaatg tgcacaggta cacttacctt tttttttttt ttttttttaa   180
gtttttccca ttcaggaaaa caacattgtg atctgtacta cagggaacca aatgtcatgc   240
gtcatacatg tgggtataaa gtacataaaa tatatctaac tattcataat gtggggtggg   300
taatactgtc tgtgaaataa tgtaagaagc ttttcactta aaaaaaatgc attactttca   360
cttaacacta gacaccaggt cgaaaatttt caaggttata gtacttattt caacaattct   420
tgagatgcta gctagtgttg aagctaaaaa tagctttatt tatgctgaat tgtgattttt   480
ttatgccaaa attttttng ggtctaatca ttgatgangc ctgggnatta atntt   535

<210> 989
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 989
gggtgcttta tttccatgct gggcgcccgg gaagtatgta cacggggtac gtgccaagca   60
tcctcgcgcg accccgagag cccgggggagc gggngcttgc cggccgtcgc actcatttac   120
ccggagacag ggagaggctc ttctgcgtga agcggttgtg cagagcctca tgcatcacgg   180
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gaagtcaggc   370

<210> 990
<211> 395
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 990
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cagaaaaaaa atagggaggc tggtagatca tcacatatat agtagctaaa atatgaaagg   120
ccagggaatt tattattaat gaagtcataa aacagactta accaaaagtg tgtgctagga   180
aacaagcagt ttcacttcag agacttcatt gcaggaaccc agtttcctta tgtggaaaaa   240

756

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agtgattata aataacagtt atctgaaagg tggttgagag gattaaatga gatcacctat    300
gcaaacaaat acatgtaggt atgaaagacc atccgtcctg ggggtngtgg aaagtttaag    360
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<210> 991
<211> 2133
<212> DNA
<213> Homo sapiens

<400> 991

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<213> Homo sapiens

<400> 1000

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767

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769

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770

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772

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773

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774

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775

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<213> Homo sapiens

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777

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<213>   Homo sapiens

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779

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<213> Homo sapiens

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<223> n=a,t,g or c

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<213> Homo sapiens

<400> 1019
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gaggaggcaa cactcggacc tggttcttgt acaacaagaa aacatcgctg gggcccccgct   180
gaggctggag tgggggtgga ggctggtctt tggaggatgc cacccccacc ccatcctctt   240
gtcaggccct cggggtaccc cagaagcttg gtgggtgagt attccacctg cttacacacc   300
actgaaagcc acagccagcc agtaactaag gggcaagaag agcattgtcc aagctggccc   360
tcatgcc   367

781

<210> 1020
<211> 320
<212> DNA
<213> Homo sapiens

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taattcacgg caggtaaaca tgggtgctca aaaagttcca catagacatt tacacttggg   120
ccatcagtat ttccctcaca ttcccttttg ttaagtccca tcttcgcagt ggcagtacag   180
gagaaatctc caccgtcacc gcacaatcca ccaggcgcat taccacctga agtgaaggtc   240
tcatctcgaa ggtgcgctca gccataaaaa gaaaacatat tacagaaagg aaaaataagt   300
gtgctcttcc cacccgcaaa   320

<210> 1021
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

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ggggctttga tgttaagtca tacataattc gagaaatacc aggaatcttc ttaatctcag   120
tgaccatctt taataccacc tctacnggga tctcattgcc aggtgttgca ggtataccag   180
tcatgaagtc actagtaata aaggttcgaa taaccacaga tctctggcat gaaggctgct   240
tttgaagtgg gtcccgatca aaatgtaatg gtgtcaaaat caccggcatc nggctgattt   300
tcccagcata cccagactcc ctgngaatgt tatgggcctc aaaatcagct tgggcgtaaa   360
agtacttgng cacccentgt tgtcaagaaa gttgggagta acatctgtag gaggttcttt   420
aactggtggg ccaaatntat aaaccactcc gttaacgttg nggacacatg g   471

<210> 1022
<211> 408
<212> DNA
<213> Homo sapiens

<400> 1022
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ttctagcagt gggtaagtcc atagagtaaa tttcaagtag gatatattta ttttctttgg   180
tggtgttttt aataattcct ttctactgca tacaaaggga cctgaagctt aaattcagtt   240
agttttggag aaatccaaaa tgagaaaaac agaaagcatg tagcattcca tgaagcaaga   300
acagcgtgca tatgctattc ctggaaatac tgaagtgtcc gaatttcatg cctaaaaagt   360
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<210> 1023
<211> 470

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<212>  DNA
<213>  Homo sapiens

<220>
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<223>  n=a,t,g or c


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cctcagcctc cctagtagct gggattacag gtgtccacca ccatgcccaa ttaattttg    180
tattttggt acagacaggg tttcaccatg ttggccagga tggtctcgat ctcgttgacc    240
ttgtgatccg cctgcctcgg cctcccaaag tgctgggatt acaggcgtgc aaccngcccc   300
tggactactt atggaggttt taaaaaatct tttaagtcca ggcctgacgt ttagagaagg   360
ttacaaaggc ggccaggatc tgagtatttc caaaaagctc tggaggcagc attgaggttt   420
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<210>  1024
<211>  292
<212>  DNA
<213>  Homo sapiens

<220>
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<223>  n=a,t,g or c


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gaaaccaaca agcgtgctca ccctgctctc cctcccgtgc tgcccggggg angcaaggtg    180
ggcaaggagg gggcaggaag ccccccatggc ctcacctcct gagtccccaa tcagggcagg   240
gaggccaggc cccaccctgg actattgact cactgcagtg gggaggagga aa            292


<210>  1025
<211>  165
<212>  DNA
<213>  Homo sapiens

<400>  1025
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cacaccactg ttgacaatga aaaaaaaaac agcatttgat attttccagc tttttaagtt    120
aaaaaatgat tcagttaaaa caaaacaaaa gtttagatat tttag                    165


<210>  1026
<211>  252
<212>  DNA
<213>  Homo sapiens

<220>
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<221>   misc_feature
<223>   n=a,t,g or c

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acctgttcag acaaacaaag atctcgatca ttacattgcc cagctttaag aatcccaaaa   180
ataactaaaa tactgtcaat caaatgagag ggctacatgg gnttattaaa gtttatttta   240
acaattttag cg   252

<210>   1027
<211>   439
<212>   DNA
<213>   Homo sapiens

<400>   1027
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taacaatgac attcttgaag tgggcacagc ttttaaactc aggctatgta tacagtaacc   120
ttgtggaact ggttcagcca gatcttcact ttcatgaaag cacagggtct gtccttttct   180
ttccagaggg ctcctctcat attccatcgc cagtttctgt tacaaggcag actgaatcaa   240
gccaagatca acacacactg gtacacgtgg ctcccaacca attttatatg tatatatata   300
ttctacttcc aacacccgca ttcatcctgg ttcaatcaaa gcctggtttt ggccaacaat   360
aaactcgtca ggagatcgaa ggttgtagat gtctgcacgt ggcttccttg gaggtccagt   420
ggtgactccc tcttccaaa   439

<210>   1028
<211>   413
<212>   DNA
<213>   Homo sapiens

<220>
<221>   misc_feature
<223>   n=a,t,g or c

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cagatatgaa gaggaatggt taggggaatt gtcattcata actctgtgct atattacttg   180
aggggctaag aaaaatgtat ggtcagtgaa acacagtagt gtacccttaa atgccttata   240
aaagaccatc catccagtct gcgcttttga ctgtgtgcaa gtatcagtaa taatgctttt   300
ggggggctca gatgaacagc gaacacccaa tcagccaggg gctctgggaa gggaaagctc   360
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<210>   1029
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<212>   DNA
<213>   Homo sapiens

<400>   1029

784

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agccaagagc tcttcccttt tcccctgtta atttccagta taatgtagca gcacaattat         180
ttcatgtcac atttaagaag aacaagaacc aatttatata aaggtacaat tgtatatcct         240
taaacattcc acataaacac actgtcaaaa ctcactggat atgc                         284


<210>  1030
<211>  371
<212>  DNA
<213>  Homo sapiens

<220>
<221>  misc_feature
<223>  n=a,t,g or c


<400>  1030
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gtatgcttcc taataacttg aaatcttttt acaaagcaca ttattcatga tcataaatat         180
gtttgttctg tcatcccacc gatgatacac acatcaggca agcagctaat ttgaacatat         240
gtacagagtc tatgataaag atttaaagtt accaaaaaga ttcaggctat aacatattaa         300
attttcttta aaagagttta ccntaaacac ttaaaggana acatagttta tctaggcact         360
tggagttatc t                                                             371


<210>  1031
<211>  348
<212>  DNA
<213>  Homo sapiens

<400>  1031
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aataatcgtc atcttcatca gagtccatta cttttcttct gttgaatttc actgttgttg         180
tcttttctgt ttgttggctt actttttaa ggatttctat taaaccttgt tctgatacct         240
tctcacttag gttgtccata tcttgccatc tgtataaggg taattctcta ctgctttagg         300
ttttttcagg gctttacaag gtgctaaggt tacttaacct ggggcccg                     348


<210>  1032
<211>  449
<212>  DNA
<213>  Homo sapiens

<220>
<221>  misc_feature
<223>  n=a,t,g or c


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tttatattat ataaggacag accaaaaatc aacctatcaa agcttcaaaa actttgggaa         120
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785

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        agggtggggat taagtacaag cacatttggc ttacagtaaa tgaactgatt tttattaact      180
        gcttttgccc atataaaatg ctgatattta ctggaaacct agccagcttc acgattatga      240
        ctaaagtacc agattataat gccagaatat aatgtgcagg caatcgtggg atgtctctga      300
        caaagtgtgt ctcaaaaata atattacttt ttacattaaa ggaaattta atgtttctct       360
        gggagttggg ggctcctngg cttttcagag tttgggttaa tcngtgttgg aattctaggt      420
        ggatccaacc atattggggc ccnctcctt                                        449


        <210>   1033
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        <212>   DNA
        <213>   Homo sapiens

        <220>
        <221>   misc_feature
        <223>   n=a,t,g or c


        <400>   1033
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        attcagatgg ttctgatgaa gtgaaacgng ccatgaacaa atcctttatg gagtcgggtg      120
        gtacagtttt gagtaccaac tggtctgatg taggtaaaag gaaagttgaa atcaatcctc      180
        ctgatgatat ggaatggaaa aagtactaaa taaattaatt tgctctcatc gtattgtgta      240
        tattcaccta atgcccattg tgtattgata ttgcattctt gaattttgaa cactgaatat      300
        cttttgaaa gattatactt ctttacctct ttgtgcttta gaaattattt tccttcaagt       360
        gttcaagtct aatgaagaat gaagataaca ttttatccac ngcgtccnta aagattncag      420
        acagggtgaa a                                                           431


        <210>   1034
        <211>   558
        <212>   DNA
        <213>   Homo sapiens


        <400>   1034
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        cttcgagaca ggagatgcag gggcctcagc caccttccca atgcagtgct cagcattacg      120
        taagaatggc tttgtggtgc tcaaaggctg gccatgtaag atcgtggaga tgtctgcttc      180
        gaagactggc aagcacggcc acgccaaggt ccatctggtt ggtattgaca tctttactgg      240
        gaagaaatat gaagatatct gcccatcaac tcataatatg gatgtcccca acatcagaag      300
        gaatgacttc cagctgattg gcatccagga tgggtaccta tcactgctcc aggacagtgg      360
        ggaggtacca gaggaccttc gtctccctga gggagacctt ggcaaggaga ttgagcagaa      420
        gtacgactgt ggagaagaga tcctgatcac ggtgctgtct gccatgacag aggaggcagc      480
        tgttgcaatc aaggccatgg caaaataact ggctcccagg gtggcagtgg tggcagcagt      540
        gatcctccga acctgcag                                                    558


        <210>   1035
        <211>   534
        <212>   DNA
        <213>   Homo sapiens

        <400>   1035
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aacttccagg acaaccaatt ccaggggaag tggtatgtgg taggcctggc agggaatgca    120
attctcagag aagacaaaga cccgcaaaag atgtatgcca ccatctatga gctgaaagaa    180
gacaagagct acaatgtcac ctccgtcctg tttaggaaaa agaagtgtga ctactggatc    240
aggacttttg ttccaggttg ccagcccggc gagttcacgc tgggcaacat taagagttac    300
cctggattaa cgagttacct cgtccgagtg gtgagcacca actacaacca gcatgctatg    360
gtgttcttca agaaagtttc tcaaaacagg gagtacttca agatcacgct ctacgggaga    420
accaaggagc tgacttcgga actaaaggag aacttcatcc gcttctccaa atctctgggc    480
ctccctgaaa accacatcgt cttccccgtc cccatcgatc aatgcatcga cggc          534
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<210> 1036
<211> 2237
<212> DNA
<213> Homo sapiens

<400> 1036
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ctgccccagc gcatggcgtc ctgcctggag gtgctggacc tcttcctgaa ccagccccac    180
atggtcctga gcagctttgt gctggctgag aaggctgcgg cctataggga cagggacagc    240
cagcgggacc tggtggaggc cgtggcacac attctgggca tccgcgactt ggctgctgtc    300
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cggcccccg cacagccacc cgtggggtgc tgcccttatg cccggcgccg gcaccaact   2040
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tttgaaattt actgtaactg tcagtgtaca cgtctggacc ccgtttcatt tttacaccaa   2160
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<210> 1037
<211> 250
<212> DNA
<213> Homo sapiens

<400> 1037
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tagcatgaga tcaacaagaa aacccaacag gaatacataa aaaacttaac aagttgactt   120
taataagtaa aaattacaac attcttctcc cagcaatgaa caatttcatt ttttaaaagt   180
aaacgaggcc taaaacaaga gggcacagga acaagtagtc agatggattt aggtgagcac   240
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<210> 1038
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 1038
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aggaaacatg ctcagagtgc aagaagcttc cttgcctgag atcacctaga aaggaaccct   180
cagagccggc aactgaatct tggtccctgt gatgtcaagc ccattgctct nccactncag   240
aacatggcct ctagattaat gccaccgatt caggaacacc tccgacagtt ttgaaatacc   300
cccatgttgc cttgtttgtt ttttccttct gggcttcttc tattacagtc tctttcattg   360
ggaaggctct gttagggcca agggccagga ggctggatta ctggacacgg gagtcccaat   420
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<210> 1039
<211> 11185
<212> DNA
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cttccagcac cgtcccgcac cctccgcatc cttccccggg ccaccacgct tcctatgtga   180
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788

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agccctggga tatggatgac tactcacctt ctgcttcagg acctcttgga aagctagaca   1620
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aattccctgt aactgaaaca ccattggtaa ctgcaagaat gatcctggaa tccaaaactg   1860
aaaagaaaat ggtaagcact gtttctgaat tggtaaccac aggtcactat ggattcacct   1920
tgggagaaga ggatgatgaa gacagaacac ttacagttgg atctgatgag agcaccttga   1980
tctttgacca aattcctgaa gtcattacgg tgtcaaagac ttcagaagac accatccaca   2040
ctcatttaga agacttggag tcagtctcag catccacaac tgtttcccct ttaattatgc   2100
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taatgaacaa cttccaggta atgagtatgg tgtcaggatt tacaccacta atttctgcag   1980
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<210>   1042
<211>   3147
<212>   DNA
<213>   Homo sapiens

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gatcctgatc ctgccatccg acgtccagct gagaaatttc ttgaatctgt tgaaggaaat     240
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gtatgtgctt cagtaacatt caaaaactat attaaaagga actggagaat tgttgaagat     360
gaaccaaaca aaatttgtga agccgatcga gtggccatta aagccaacat agtgcacttg     420
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agagaagatt ttccacagaa atggcctgac ttgctgacag aaatggtgaa tcgctttcag     540
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taccgtcatg aatttaagtc aaacgagtta tggactgaaa ttaagcttgt tctggatgcc     660
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794

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<220>
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<223>   n=a,t,g or c

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796

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<212>   DNA
<213>   Homo sapiens


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ccggggtccg gtgggcaaaa ggctacagca ggagctgatg accctcatga tgtctggcga      180
taaagggatt tctgccttcc ctgaatcaga caaccttttc aaatgggtag ggaccatcca      240
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tggctaccct tacaatgcgc ccacagtgaa gttcctcacg ccctgctatc accccaacgt      360
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agaaacctac tcaaagcagg tcaccagcca ggagccctga cccaggctgc ccagcctgtc      600
cttgtgtcgt cttttttaatt tttccttaga tggtctgtcc ttttgtgat ttctgtatag      660
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aaa                                                                     783


<210>   1045
<211>   518
<212>   DNA
<213>   Homo sapiens


<220>
<221>   misc_feature
<223>   n=a,t,g or c


<400>   1045
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<210> 1046
<211> 657
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 1046
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<210> 1047
<211> 416
<212> DNA
<213> Homo sapiens

<400> 1047
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cttgagaaaa tttggctcaa gtccatttgg ctgtagtgtc aacgatgttt ccagtagtgt      180
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<210> 1048
<211> 564
<212> DNA
<213> Homo sapiens

<220>

798

<221> misc_feature
<223> n=a,t,g or c

<400> 1048

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tagcaggcgt gatgaccaac aaagatgaag ttccctatct acggaaaggc atgactggga     180
ggcccacaag gactctcatt gagttcttac ttcgtttcag tcaagacaat gcttagttca     240
gatactcaaa aatgtcttca ctctgtctta aattggacag ttgaacttaa aaggtttttg     300
aataaatgga tgaaaatctt ttaacggaga caaaggatgg tatttaaaaa tgtagaacac     360
aatngaaatt tgtatgcctt gatttttttt tcatttcaca caaagattta taaaggtaaa     420
gttaatatct tacttgataa ggatttttaa gatactctat aaatggntta aaattttttag    480
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gattggtgag ccagggaanc atgg                                            564
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<210> 1049
<211> 470
<212> DNA
<213> Homo sapiens

<400> 1049

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gagaaccaac tgactttcct attgactcat caggaaccag tcctcagtct ggtcaagttg     180
tttcttattt gtgagcagtt caggctatct cctgatgggg atgaggccaa ggctttctta     240
tcttttggtt gtctctgctt aatggaggag cctggcctag gatggaggcc tggcttagat     300
ctttcattcc acctcaggaa tgaggttgtg atctttcctg tcctgaccct ctctgaatta     360
tgtttcaata gtactcttga ttgtctgcca tgttgttgaa gcaaatgaat tattttttaaa    420
tgttaagtaa gtaaataaac cttagcccgt caaaaaaaaa aaaaaaaaa                 470
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<210> 1050
<211> 459
<212> DNA
<213> Homo sapiens

<400> 1050

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tttttttatta tgtaaatgcc tttatttgaa ctactacatt gctaccagat tacatcactt      60
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gtacattaat tcctacatat atactttat ttttagtgac cacatttctt tgtttcaggt      180
gtaaaattaa aaaatatatt gtacacttag catacttggc ctaccaaatc ccgtctaagt     240
tctgagcaca ctctctcctc aaaagtatca tattcaacag cattttaaat ttagagagag     300
agtttgatga tacaggtttt aaaacaaata agcatgtatt gaaccaagtg atttaagaca     360
aaatatttca attgtttaca gcttgggtat gagagggaag atgcaaattt aaggtacatt     420
tttcctctag ctacgatggt atgttttact tacctggat                            459
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<210> 1051
<211> 304
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 1051
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ctctgctctt ctttagaatt acctttgctg cggccagtac atgctccttg ttaatgactc   180
tacatttact cgcacaagcg tttgtcctgg actcttctgc taatcgatga acaaacagta   240
aacagttcag atggaccaat aagtcaccac ttttctccag accgaagttg gagggcttct   300
ttcc   304

<210> 1052
<211> 1295
<212> DNA
<213> Homo sapiens

<400> 1052
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ctaccatggg ctggctgcac tgggagcgct tcatgtgcaa ccttgactgc caggaagagc   180
cagattcctg catcagtgag aagctcttca tggagatggc agagctcatg gtctcagaag   240
gctggaagga tgcaggttat gagtacctct gcattgatga ctgttggatg gctccccaaa   300
gagattcaga aggcagactt caggcagacc ctcagcgctt tcctcatggg attcgccagc   360
tagctaatta tgttcacagc aaaggactga agctagggat ttatgcagat gttggaaata   420
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ctgactgggg agtagatctg ctaaaatttg atggttgtta ctgtgacagt ttggaaaatt   540
tggcagatgg ttataagcac atgtccttgg ccctgaatag gactggcaga agcattgtgt   600
actcctgtga gtggcctctt tatatgtggc cctttcaaaa gcccaattat acagaaatcc   660
gacagtactg caatcactgg cgaaattttg ctgacattga tgattcctgg aaaagtataa   720
agagtatctt ggactggaca tcttttaacc aggagagaat tgttgatgtt gctggaccag   780
ggggttggaa tgacccagat atgttagtga ttggcaactt tggcctcagc tggaatcagc   840
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tccgacacat cagccctcaa gccaaagctc tccttcagga taaggacgta attgccatca   960
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gtggacctcg ctcttatacc atcgcagttg cttccctggg taaaggagtg gcctgtaatc   1140
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caatgcagat gtcattaaaa gacttacttt aaaaa   1295

<210> 1053
<211> 732
<212> DNA
<213> Homo sapiens

<400> 1053
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aaacctaagc agctggaagg aaccatggcc aactgtgagc gtaccttcat tgcgatcaaa   120
ccagatgggg tccagcgggg tcttgtggga gagattatca agcgttttga gcagaaagga   180
ttccgccttg ttggtctgaa attcatgcaa gcttccgaag atcttctcaa ggaacactac   240

800

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gttgacctga aggaccgtcc attctttgcc ggcctggtga aatacatgca ctcagggccg    300
gtagttgcca tggtctggga ggggctgaat gtggtgaaga cgggccgagt catgctcggg    360
gagaccaacc ctgcagactc caagcctggg accatccgtg gagacttctg catacaagtt    420
ggcaggaaca ttatacatgg cagtgattct gtggagagtg cagagaagga gatcggcttg    480
tggtttcacc ctgaggaact ggtagattac acgagctgtg ctcagaactg gatctatgaa    540
tgacaggagg gcagaccaca ttgcttttca catccatttc ccctccttcc catgggcaga    600
ggaccaggct gtaggaaatc tagttattta caggaacttc atcataattt ggagggaagc    660
tcttggagct gtgagttctc cctgtacagt gttaccatcc ccgaccatct gattaaaatg    720
cttcctccca gc                                                        732


<210>   1054
<211>   1895
<212>   DNA
<213>   Homo sapiens

<400>   1054
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ctgagcccca tggcccgcgc tgctctctcc gccgccccca gcaatccccg gctcctgcga    180
gtggcactgc tgctcctgct cctggtagcc gctggccggc gcgcagcagg tgggtaccgg    240
cgccctgggg tccccgggcc ggacgcggct ggggtaggca cccagcgccg acagcctcgc    300
tcagtcagtg agtctcttct tccctaggag cgtccgtggc cactgaactg cgctgccagt    360
gcttgcagac cctgcaggga attcacccca agaacatcca agtgtgaac gtgaagtccc     420
ccggacccca ctgcgcccaa accgaagtca tgtaagtccc gccccgcgct gcctctgcca    480
ccgccggggt cccagaccct cctgctgccc caaccctgtc cccagcccga cctcctgcct    540
cacgagattc ccttccctct gcagagccac actcaagaat gggcggaaag cttgcctcaa    600
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ggcgtcccca ccctggttct tccttcgttc caatgaatgt aggtaaaact gccttcattt    900
gaggcccagt aggacaaaca gcaacaggtt ctggctgttt ttaatccaat agtacagtgg    960
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atattttagg tgtaaaataa ttaagggtat gattaactct acctgcacac tgtcctatta   1440
tattcattct ttttgaaatg tcaaccccaa gttagttcaa tctggattca tatttaattt   1500
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aacatgccag ccactgtgat agaggctggc ggatccaagc aaatggccaa tgagatcatt   1620
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gttatttatt gaaatgattt cacagtgtgt ggtcaacatt tctcatgttg aaactttaag   1740
aactaaaatg ttctaaatat cccttggaca ttttatgtct ttcttgtaag gcatactgcc   1800
ttgtttaatg gtagtttttac agtgtttctg gcttagaaca aaggggctta attattgatg   1860
ttttcataga gaatataaaa ataaagcact tatag                              1895


<210>   1055
<211>   717
<212>   DNA
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<213>   Homo sapiens

<400>   1055
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gagtatcgac atgtcatgct gcccaaggac atagccaagc tggtccctaa aacccatctg   120
atgtctgaat ctgaatggag gaatcttggc gttcagcaga gtcagggatg ggtccattat   180
atgatccatg aaccagaacc tcacatcttg ctgttccggc gcccactacc caagaaacca   240
aagaaatgaa gctggcaagc tacttttcag cctcaagctt tacacagctg tccttacttc   300
ctaacatctt tctgataaca ttattatgtt gccttcttgt ttctcacttt gatatttaaa   360
agatgttcaa tacactgttt gaatgtgctg gtaactgctt tgcttcttga gtagagccac   420
caccaccata gcccagccag atgagtgctc tgtggaccca cagcctaagc tgagtgtgac   480
cccagaagcc acgatgtgct ctgtatccag aacacacttg gcagatggag gaagcatctg   540
agtttgagac catggctgtt acagggatca tgtaaacttg ctgttttttgt tttttctgcc   600
gggtgttgta tgtgtggtga cttgcggatt tatgtttcag tgtactggaa actttccatt   660
ttattcaaga aatctgttca tgttaaaagc cttgattaaa gaggaagttt ttataat   717

<210>   1056
<211>   627
<212>   DNA
<213>   Homo sapiens

<400>   1056
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cgctctcgtt tcattttctg cagcgcgcca cgaggatggc ccacaagcag atctactact   120
cggacaagta cttcgacgaa cactacgagt accggcatgt tatgttaccc agagaacttt   180
ccaaacaagt acctaaaact catctgatgt ctgaagagga gtggaggaga cttggtgtcc   240
aacagagtct aggctgggtt cattacatga ttcatgagcc agaaccacat attcttctct   300
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ttttcaaatt taatgtatat gtgtatataa ggtagtattc agtgaatact tgagaaatgt   420
acaaatcttt catccatacc tgtgcatgag ctgtattctt cacagcaaca gagctcagtt   480
aaatgcaact gcaagtaggt tactgtaaga tgtttaagat aaaagttctt ccagtcagtt   540
tttctcttaa gtgcctgttt gagtttactg aaacagttta cttttgttca ataaagtttg   600
tatgttgcat ttaaaaaaaa aaaaaaa   627

<210>   1057
<211>   2824
<212>   DNA
<213>   Homo sapiens

<400>   1057
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gcctgttcct gggactttcc gagagccccg ccctcgttcc ctcccccagc cgccagtagg   120
ggaggactcg gcggtacccg gagcttcagg ccccaccggg gcgcggagag tcccagaccc   180
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gccttgttcc gagagctgat ctcatgggga gcccccgggt ccgcggatag caccaggcta   600
ctgcactggg gaagtcaccc taccgccttc gttgtcagtt atgcagcggc actgcccgca   660
gcagccctgt ggcacaaact cgggagcctc tgggtgcccg gcggtcaggg cggctctgga   720

802

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aaccctgtgc gtcggcttct aggctgcctg ggctcggaga cgcgccgcct ctcgctgttc      780
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ctcactgact ggattctaca agatggctca gccgatacct tcactcgaaa cttaactctc      900
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gacacgtcca ccctgagtga ttctctgagt gagaatctga gcttatttct gtggtacctg     1140
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agtgccctgg atgcaaacag ccagttacag gtggagcagc tcctgtacga aagccctgag     2280
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cacatcctct ttctggaagg aggcgctatc cgggaggggg gaacccacca gcagctcatg     2400
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gaaactgaga aatgttcaga atgtacggaa agatgatcag ctattttcaa cataactgaa     2760
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ttgt                                                                   2824
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<210>   1058
<211>   439
<212>   DNA
<213>   Homo sapiens

<400>   1058
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aaggtgctga tggagaagga gctaccaggc ttcctgcaga gtggaaaaga caaggatgcc      180
gtggataaat tgctcaagga cctggacgcc aatggagatg cccaggtgga cttcagtgag      240
ttcatcgtgt tcgtggctgc aatcacgtct gcctgtcaca agtactttga gaaggcagga      300
ctcaaatgat gccctggaga tgtcacagat tcctgcagag ccatggtccc aggcttccca      360
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aatgcttatg aaaaaaaaa                                                    439
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803

<210> 1059
<211> 6004
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 1059
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cagcctctgc ccatcccggt tcaagtgatt ctctgccctc agcctcccga gtagctggga   180
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tacaactgtg ctgtaccttg attaataatt gaccggccan nnnnnnnnn nnnnnnnnnn   1260
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aaaaaaaagt tgaagttata aaaaacaaaa acgtgaatta aaattgtgaa acttagatcc   1500
aggtgtcgca ttctgatgtt gtctaatttc ttgggcccta tgacaaatat attttaatac   1560
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aatttgcaaa tcttaacaga taacacccag agtcttgtgt aagaaaaatg ttttagaagt   1980
ctgatatttc ataaaattaa gtacacgtaa ttttataggt acattaacaa acatgtttat   2040
ttttattttat ttttttttgag acagactcta ctgttggccc ccaggctgga gtgcagtggt   2100
gcgatctcgg nnnnnnnnnn nnnnnnnnnn nnnnnngtta attttcccag tctattttat   2160
tgttagtatt tgtcacattt tctttgtaaa cagtgaatta aaatatttta taggtattca   2220
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gatgtgtggg agcacgctta ctaccttcag tataaaaatg tcaggcctga ttatctaaaa   2460
gctatttgga atgtaatcaa ctgggagaat gtaactgaaa gatacatggc ttgcaaaaag   2520
taaaccacga tcgttatgct gagtatgtta agctgctctt tatgactgtt tttgtagtgg   2580

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829

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830

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835